

Appl. No. 10/733,706
Amdt. dated July 22, 2005
Reply to Office action of June 2, 2005

AMENDMENTS TO THE CLAIMS

In the claims, please cancel claim 11 and amend claims 1, 7 and 15 as follows:

1. (currently amended) A process for delivering a polynucleotide to an extravascular parenchymal cell in a limb of a mammal *in vivo*, comprising:
 - a) inserting a single injector into the lumen of a single vessel in said limb;
 - [[a]] b) forming an occlusion such that [[of]] fluid flow ~~from out of~~ is impeded;
 - [[b]] c) rapidly injecting ~~inserting~~ a viral vector in a large volume into ~~the lumen of a said vessel in said limb distal to the occlusion~~ thereby forcing fluid out of the limb vasculature and into the extravascular space and delivering said viral vector to said extravascular parenchymal cell; and,
 - [[c]] d) releasing said occlusion within about two minutes after injection of said viral vector.
2. (original) The process of claim 1 wherein the viral vector is selected from the group consisting of: virus, virally encapsulated polynucleotide, and virally associated polynucleotide.
3. (original) The process of claim 1 wherein the polynucleotide is selected from the group consisting of RNA and DNA.
4. (previously presented) The process of claim 2 wherein the viral vector is selected from the group consisting of: adenovirus, adeno-associated virus, retrovirus, herpes simplex virus (HSV), vaccinia virus, vesicular stomatitis virus, retrovirus, lentivirus, human immunodeficiency virus, murine leukaemia virus, and syndbis virus.
5. (original) The process of claim 1 wherein the vessel consists of a blood vessel.
6. (original) The process of claim 5 wherein the blood vessel consists of an artery.
7. (currently amended) The process of claim [[5]] 6 wherein the artery is selected from the list consisting of: hepatic artery, femoral artery, iliac artery, and coronary artery.
8. (original) The process of claim 5 wherein the blood vessel consists of a vein.
9. (original) The process of claim 8 wherein the vein is selected from the list consisting of: portal vein, hepatic vein, tail vein, coronary vein, inferior phrenic vein and saphenous vein.
10. (canceled)
11. (canceled)

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12. (previously presented) The process of claim 1 further comprising injecting a vasodilator into said limb.
13. (previously presented) The process of claim 1 where the parenchymal cell consists of a skeletal muscle cell.
14. (canceled)
15. (currently amended) A process for extravasation of a viral vector in a limb of a mammal *in vivo*, comprising:
 - a) inserting a single injector into the lumen of a single vessel in said limb;
 - [[a]] b) forming an occlusion [[of]] such that fluid flow ~~from~~ out of said limb in impeded;
 - [[b]] c) rapidly injecting ~~inserting~~ the viral vector in a large volume into ~~the lumen of a~~ said vessel distal to the occlusion in the limb wherein the volume of the solution and the rate of solution injection result in increased extravascular fluid volume; and,
 - [[c]] d) removing said occlusion within two minutes of said ~~inserting~~ injecting.
16. (previously presented) The process of claim 15 further comprising injecting a vasodilator into the lumen of said vessel.
17. (canceled)